

~~SECRET~~

TECHNICAL EXHIBIT
FOR
SYSTEM 2 CRYSTAL UNITS

June 11, 1956

CMCC Document No. 113X5.1

Copy 1 of 10

(This document contains a total of 8 sheets,
including this title sheet.)

~~SECRET~~

~~SECRET~~

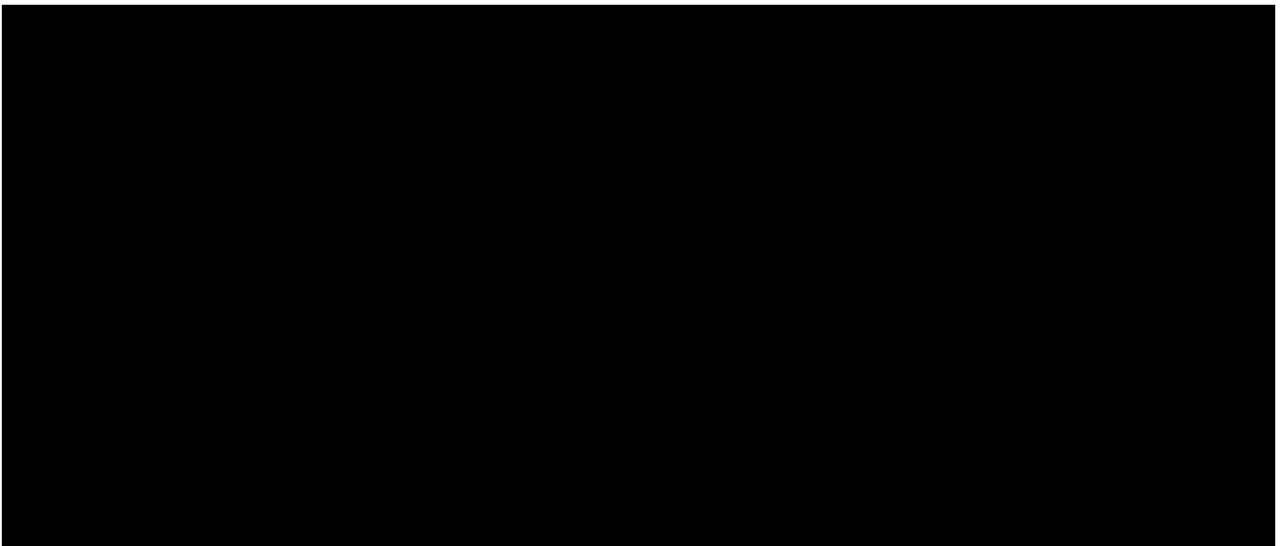
1-0. INTRODUCTION. The operating frequency of the System 2 equipments is controlled by plug-in quartz crystals. Eight crystals are used in each of the following System 2 units: the airborne receiver, the base-station receiver, the airborne transmitter-exciter unit, and the base-station transmitter-exciter unit. This technical exhibit describes crystal-unit kits which provide a choice of ten operating frequencies for each of the eight operating channels.

2-0. DESCRIPTION OF CRYSTAL-UNIT KITS.

2-1. Each crystal-unit kit is used in conjunction with one of the four System 2 units noted above. Identical kits are used for the airborne and base-station receiver. The 80 crystal units which make up each kit are packaged in a metal box having a hinged cover and a clasp.

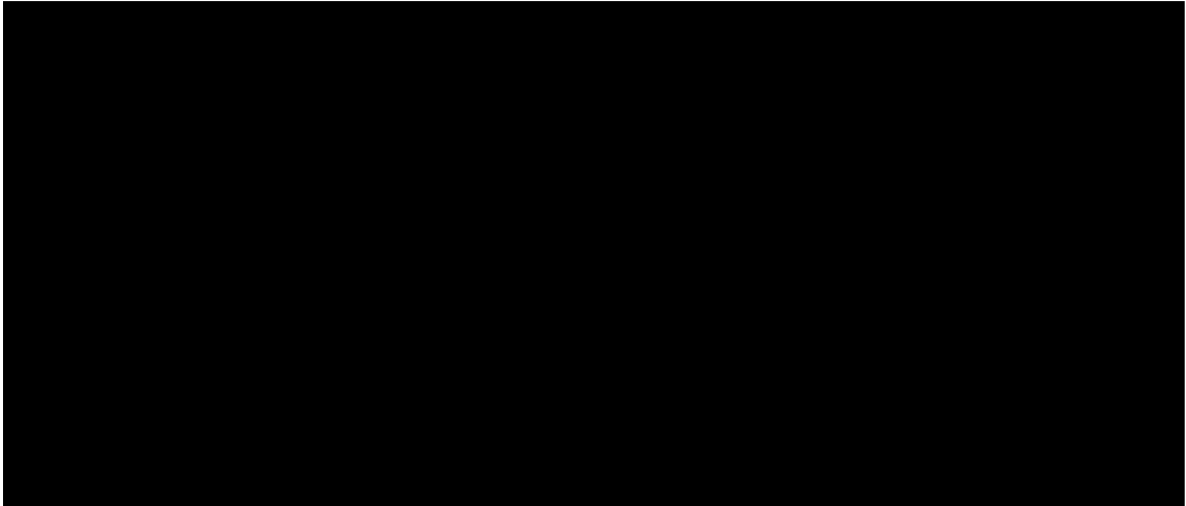
2-2. The top of each crystal unit is marked with the nominal crystal frequency and an identifying symbol. The identifying symbol consists of a two-digit number followed by the letters "R", "TA", or "TG". The two digit number defines the operating frequency as follows:

25X1X3

~~SECRET~~

~~SECRET~~

25X1X3



The letter suffix in the marking symbol defines the application of the crystals as follows:

a. The letter "R" indicates that the crystal unit is used in the airborne or base-station receiver.

b. The letters "TA" indicate that the crystal unit is used in the airborne transmitter-exciter unit.

c. The letters "TG" indicate that the crystal unit is used in the base-station (ground) transmitter-exciter unit.

2-3. The table in paragraph 2-8 contains a list of operating frequencies, the corresponding nominal crystal frequencies, and the corresponding crystal-unit marking for each crystal in each kit.

2-4. The salient characteristics of the quartz crystal units furnished in these kits are given in the paragraphs which follow.

2-5. Receiver crystal units have the following characteristics:

~~SECRET~~

Next 4 Page(s) In Document Exempt